

PLA SERIES

A complete line-up including deluxe units that offer added energy savings. The incorporation of wide air-outlet and the “i-see Sensor” enhances airflow distribution control, achieving an enhanced level of comfort throughout the room. The synergy of higher energy efficiency and more comfortable room environment results in the utmost user satisfaction.

PLA-RP35/50/60/71/100/125/140



Deluxe 4-way Cassette Line-up

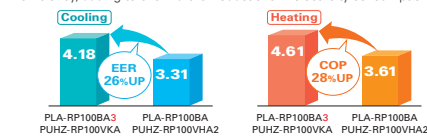
For customers seeking much higher energy-savings, Mitsubishi Electric offers a variety of deluxe units in this series line-up: models 75–125. Compared to the standard model (100), deluxe models provide an additional energy savings of approximately 20%, contributing to a significant reduction in electricity costs.

Line-up

Series	Model	35	50	60	71	100	125	140
Deluxe 4-way Cassette		PLA-RP 35BA	PLA-RP 50BA	PLA-RP 60BA	PLA-RP71BA2	PLA-RP100BA3	PLA-RP125BA2	PLA-RP 140BA2
Standard 4-way Cassette		PLA-RP 35BA	PLA-RP 50BA	PLA-RP 60BA	PLA-RP71BA	PLA-RP100BA	PLA-RP125BA	PLA-RP 140BA2

Energy Efficiency Comparison

Compared to the standard model (100), the deluxe 4-way ceiling cassette power inverter series provides an approximate 20% improvement in energy efficiency, adding to even further reductions in electricity consumption.



Key Technologies for Higher Energy Efficiency

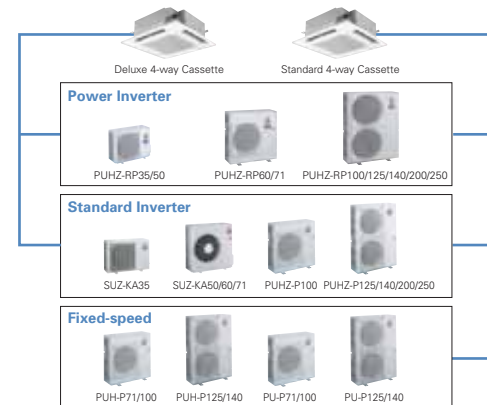
New Heat Exchanger Design

Heat exchanger fine size and pitch have been changed, raising energy efficiency.

Pre-grooved Piping

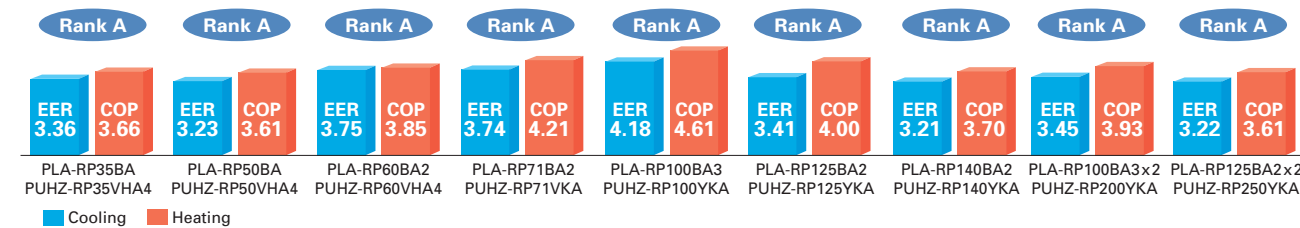
High-performance pre-grooved piping is utilized, increasing the heat exchange area.

Indoor/Outdoor Unit Combinations



“Rank A” Energy Savings Achieved for Range of Full-capacity Models

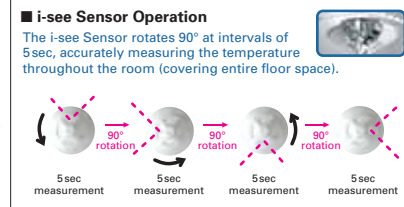
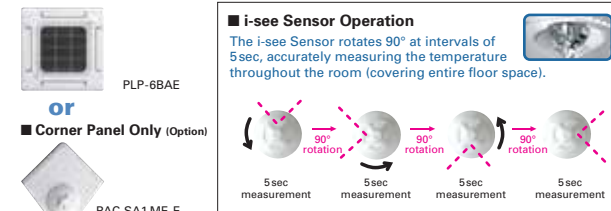
In addition to the deluxe indoor units, models in the full-capacity range have also attained the “Rank A” energy savings rating. This contributes greatly to reducing electricity costs regardless of building size.



“i-see Sensor” temperature-sensing technology improves energy efficiency and enhances room comfort

The “i-see Sensor” is an innovative Mitsubishi Electric technology that uses a radiation-based sensor to monitor temperature throughout an entire room. When connected to the air conditioner control panel, i-see Sensor works to maximize room comfort.

i-see Sensor Panel

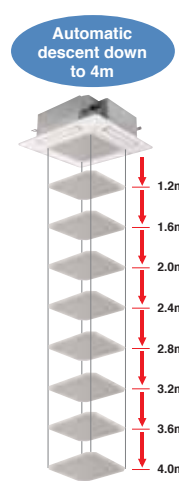


Automatic Grille Lowering Function (PLP-6BAJ)

An automatic grille lowering function is available for easy filter maintenance. Special wired and wireless remote controllers can be used to lower the grille for maintenance.

The grille can be lowered a maximum of 4m from the ceiling in 8 steps, thus enabling easy cleaning of the air filter. Cleaning of the filter is an important factor for saving energy.

Grille Elevation Remote Controller (comes with the automatic elevation panel)

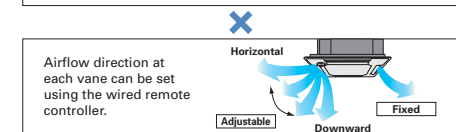
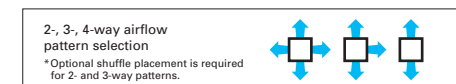


Optimum Airflow

Individual Vane Settings

Optimum airflow settings provide maximum comfort throughout the room.

In addition to the selection of variable airflow patterns (i.e., 2-, 3- or 4-way), this function allows the independent selection of vertical airflow levels for each vane, thereby maintaining a comfortable room environment with even temperature distribution.



72 airflow patterns

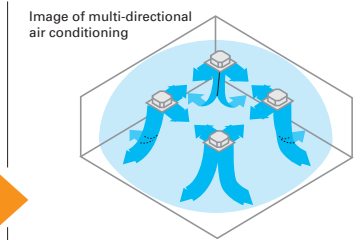
Wide Airflow

Wide-angle outlets distribute airflow to all corners of the room.

The outlets are larger than those of previous models and the shape has been improved for better wide-angle ventilation.



New 4-Way Ceiling Cassette



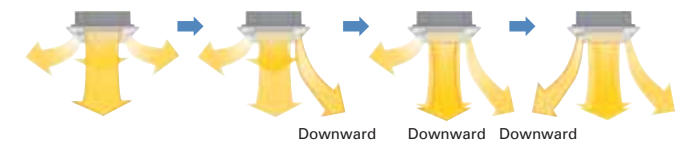
Individual Vane Setting + Wide Airflow

The combination of individual vane setting, which enables the optimal outlet setting for each room layout, and the wide airflow function works to ensure even temperature distribution throughout each room. The result is uniformly comfortable air conditioning.

Wave Airflow – Thoroughly warming all corners of the room!

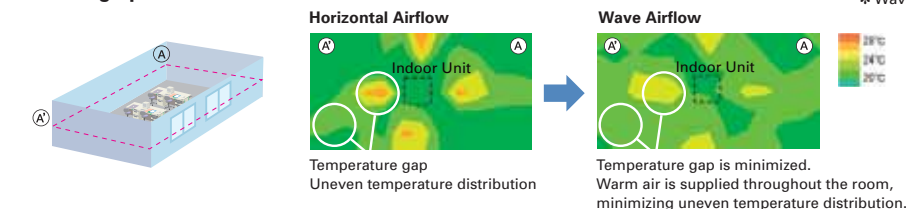
Wave Airflow Operation

“Wave Airflow” is essentially the advanced control of the vanes directing the airflow from the unit. Blown-air is repeatedly dispersed from the unit in horizontal and downward directions at time-lagged intervals to provide uniform heating throughout the room.



* Wave Airflow is possible only when using the heating mode

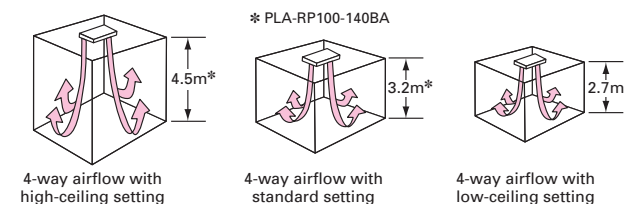
Thermograph of Wave Control Effect



Temperature distribution comparison approximately 20min after turning on a PLA-RP71BA 4-Way ceiling cassette. The measurement point for comparison is a plane 1.2m above the floor.

Equipped with High- and Low-ceiling Modes

Units are equipped with high- and low-ceiling operation modes that make it possible to switch the airflow volume to match room height. The ability to choose the optimum airflow volume makes it possible to optimize the breezy sensation felt throughout the room.

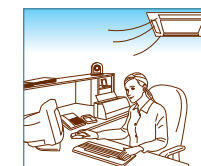


Airflow Range

Model	PLA-RP35-71BA			PLA-RP100-140BA		
	High-ceiling setting	Standard setting	Low-ceiling setting	High-ceiling setting	Standard setting	Low-ceiling setting
4-Way	3.5m	2.4m	2.5m	4.5m	3.2m	2.7m
3-Way	3.5m	3.0m	2.7m	4.5m	3.6m	3.0m
2-Way	3.5m	3.3m	3.0m	4.5m	4.0m	3.3m

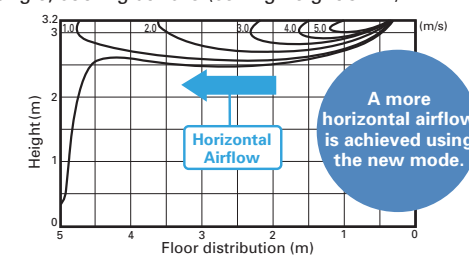
Horizontal Airflow

A “Horizontal Airflow” function has been added to reduce drafty-feeling distribution. Horizontal Airflow prevents cold drafts from striking the body directly, thereby keeping the body from becoming over-chilled.



[Airflow Distribution]

PLA-RP125BA(2)
 Flow angle, cooling at 20°C (ceiling height 3.2m)



* Smudge spots on the ceiling may form where the airflow is not evenly distributed.

Automatic Air-speed Adjustment

An automatic air-speed mode that adjusts airflow speed automatically is adopted to maintain comfortable room conditions at all times. This setting automatically adjusts the air-speed to conditions that match the room environment.

At the start of heating/cooling operation, the airflow is set to high-speed to quickly heat/cool the room.

When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable comfortable heating/cooling operation.

